

Patent Number(s): JP47042989-A; JP75015511-B

Title: Polyesters with improved colour tone - synthesized using antimony catalysts

Patent Assignee Name(s) and Code(s): MITSUBISHI RAYON CO LTD (MITR-C); (MITR-C)

Derwent Primary Accession Number: 1973-56945U [39]

Patents Cited by Inventor: 0

Articles Cited by Inventor: 0

Patents Cited by Examiner: 0

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Abstract:

An Sb salt of oxalic acid, beta-hydroxycarboxylic acid, alpha, alpha-dicarboxylic acid, or thio acid analogue was used as a polyester condens. catalyst to give fibre grade polyester with good whiteness and transparency in good yield. In an example 8.67 pts. ethoxyantimony oxalate (I) in 200 pts. ethylene glycol (II) was added to a ester-exchanged mixt. from di-Me terephthalate 10,000 (II) 7500 and Mg(OAc)₂ 6 pts. cntg. 3.2 pts. (MeO)₃PO, and the mixt. polycondensed to give poly(ethylene terephthate) (III) with intrinsic viscosity (25 degrees 1:1 phenol C₂H₂Cl₄) 0.743 and good whiteness cf 0.672 and greyish discolouration for similarly prepd. (III) with 5 pts. Sb₂O₃ in place of (I).

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds); F01 (Threads and fibres, natural or artificial; spinning)

Derwent Manual Code(s): A02-A07; A05-E01A; F01-D04

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